

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1325759

Luminaire Tested: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

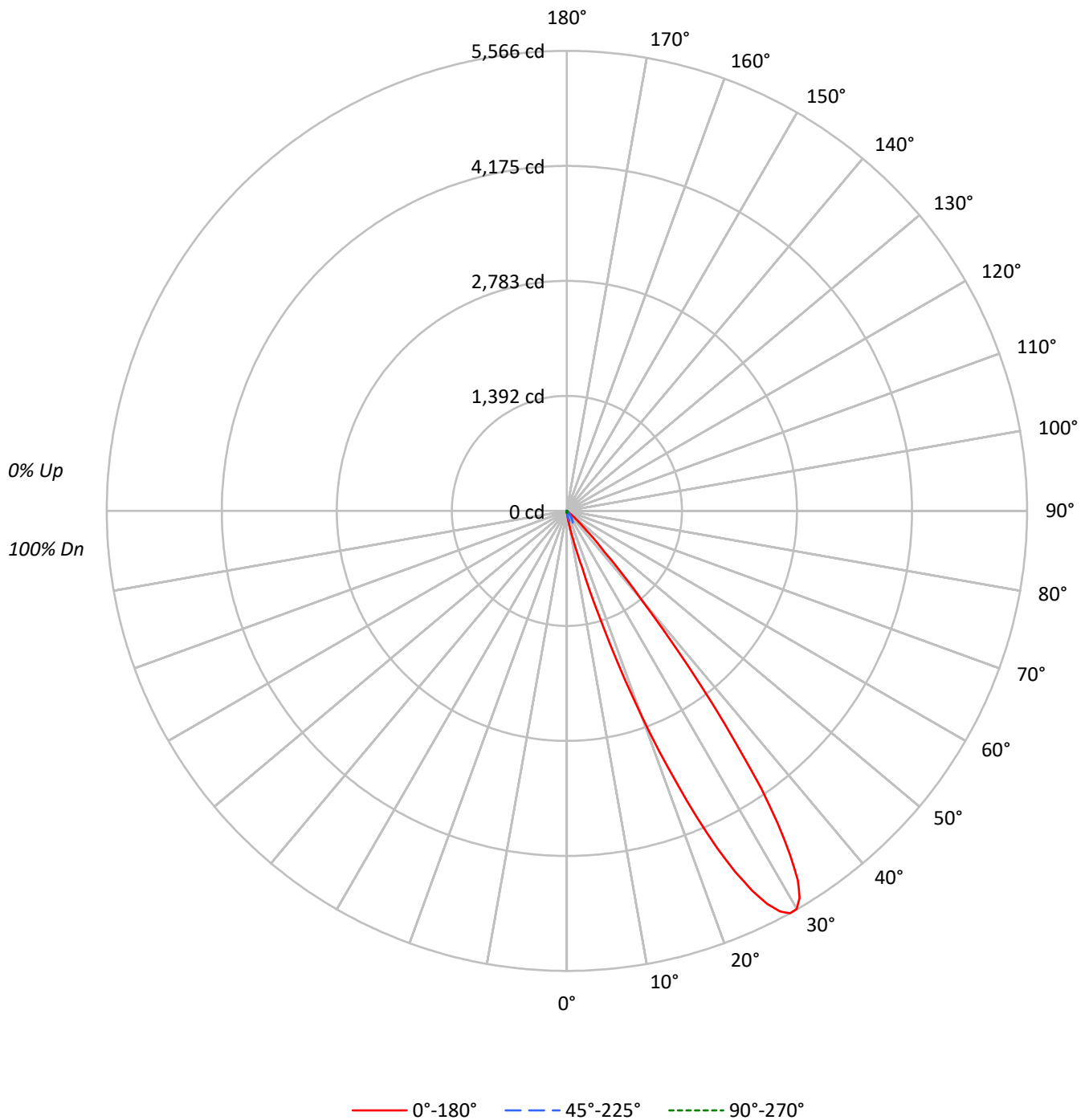
Lumens per Lamp: N/A  
Luminaire Lumens: 608.1 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 68  |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 61  |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 41  |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°   | 90°  | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0°  | 3462    | 3462  | 3462 | 3462 | 3462 |
| 5°  | 7468    | 5515  | 3267 | 1746 | 1435 |
| 10° | 33105   | 10440 | 2588 | 717  | 525  |
| 15° | 125165  | 24142 | 1801 | 321  | 214  |
| 20° | 481373  | 34034 | 1081 | 110  | 110  |
| 25° | 915396  | 31924 | 570  | 0    | 0    |
| 30° | 1105812 | 25753 | 239  | 0    | 0    |
| 35° | 862467  | 17534 | 126  | 0    | 0    |
| 40° | 314726  | 8633  | 135  | 0    | 135  |
| 45° | 80813   | 2582  | 146  | 0    | 292  |
| 50° | 13638   | 322   | 161  | 161  | 482  |
| 55° | 1772    | 0     | 360  | 540  | 901  |
| 60° | 207     | 207   | 620  | 827  | 1206 |
| 65° | 245     | 245   | 978  | 1223 | 1426 |
| 70° | 302     | 302   | 1209 | 1209 | 1511 |
| 75° | 399     | 399   | 1597 | 1198 | 1597 |
| 80° | 0       | 595   | 1785 | 1190 | 1785 |
| 85° | 0       | 1186  | 3557 | 1186 | 1186 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 80813 cd/sqm

TEST NUMBER: P1325759

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 0.5       |
| 10°-20°   | 46.6   | 7.7       |
| 20°-30°   | 258.4  | 42.5      |
| 30°-40°   | 249.6  | 41.1      |
| 40°-50°   | 43.4   | 7.1       |
| 50°-60°   | 3.1    | 0.5       |
| 60°-70°   | 1.8    | 0.3       |
| 70°-80°   | 1.5    | 0.2       |
| 80°-90°   | 0.8    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 307.7  | 50.6      |
| 0°-40°    | 557.4  | 91.7      |
| 0°-60°    | 603.9  | 99.3      |
| 0°-90°    | 608.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 608.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 43   | 32  | 19  | 10   | 8    | 8    |
| 15° | 702  | 135 | 10  | 2    | 1    | 313  |
| 25° | 4817 | 168 | 3   | 0    | 0    | 2154 |
| 35° | 4102 | 83  | 1   | 0    | 0    | 2359 |
| 45° | 332  | 11  | 1   | 0    | 1    | 356  |
| 55° | 6    | 0   | 1   | 2    | 3    | 11   |
| 65° | 1    | 1   | 2   | 3    | 4    | 1    |
| 75° | 1    | 1   | 2   | 2    | 2    | 0    |
| 85° | 0    | 1   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1  |
| 2.5°  | 29.6   | 28.4   | 29.0   | 29.0   | 29.0   | 29.0   | 29.0   | 27.8   | 27.8   | 28.4   | 25.4  |
| 5°    | 43.2   | 43.2   | 42.6   | 43.2   | 43.2   | 42.6   | 41.4   | 40.8   | 40.8   | 39.6   | 31.9  |
| 7.5°  | 86.3   | 85.2   | 85.2   | 84.0   | 78.1   | 76.3   | 75.1   | 72.2   | 66.8   | 65.6   | 41.4  |
| 10°   | 189.3  | 189.8  | 185.7  | 180.4  | 179.8  | 170.9  | 168.0  | 162.6  | 152.6  | 142.5  | 59.7  |
| 12.5° | 343.6  | 335.9  | 325.9  | 326.5  | 309.3  | 303.4  | 289.8  | 275.0  | 259.6  | 243.7  | 98.2  |
| 15°   | 702.0  | 680.1  | 693.2  | 661.2  | 625.1  | 584.3  | 542.9  | 490.9  | 446.5  | 399.2  | 135.4 |
| 17.5° | 1478.6 | 1499.9 | 1463.8 | 1327.2 | 1243.2 | 1144.4 | 1005.4 | 871.2  | 756.4  | 664.2  | 165.6 |
| 20°   | 2626.5 | 2657.9 | 2535.5 | 2416.6 | 2212.5 | 1990.2 | 1758.3 | 1495.7 | 1244.4 | 1026.7 | 185.7 |
| 21°   | 3106.2 | 3087.3 | 3037.0 | 2846.6 | 2611.2 | 2353.3 | 2069.4 | 1779.6 | 1475.0 | 1192.3 | 187.5 |
| 22°   | 3569.9 | 3578.7 | 3461.6 | 3262.3 | 3017.5 | 2731.8 | 2385.2 | 2027.4 | 1699.2 | 1327.2 | 184.5 |
| 23°   | 4031.8 | 4060.2 | 3905.2 | 3718.3 | 3410.2 | 3087.9 | 2686.9 | 2300.7 | 1894.9 | 1481.5 | 178.6 |
| 24°   | 4459.4 | 4439.9 | 4335.2 | 4099.8 | 3770.4 | 3393.0 | 2976.7 | 2508.3 | 2055.8 | 1613.4 | 173.9 |
| 25°   | 4817.2 | 4814.8 | 4650.4 | 4421.5 | 4044.8 | 3626.7 | 3167.7 | 2678.0 | 2193.6 | 1702.7 | 168.0 |
| 26°   | 5110.0 | 5062.1 | 4932.5 | 4653.4 | 4281.4 | 3840.2 | 3324.4 | 2801.6 | 2271.1 | 1747.7 | 162.1 |
| 27°   | 5335.9 | 5301.6 | 5127.7 | 4837.3 | 4448.7 | 3960.8 | 3425.0 | 2863.1 | 2306.6 | 1762.5 | 154.4 |
| 28°   | 5487.9 | 5450.6 | 5265.5 | 4966.2 | 4541.0 | 4036.5 | 3478.2 | 2889.1 | 2306.6 | 1748.3 | 147.3 |
| 29°   | 5566.5 | 5515.7 | 5331.2 | 5010.6 | 4562.3 | 4045.4 | 3465.2 | 2863.7 | 2270.5 | 1704.5 | 139.0 |
| 30°   | 5560.6 | 5497.4 | 5304.0 | 4970.4 | 4499.0 | 3972.6 | 3392.4 | 2772.0 | 2188.9 | 1639.4 | 129.5 |
| 31°   | 5464.8 | 5393.9 | 5178.0 | 4834.4 | 4368.3 | 3835.4 | 3255.2 | 2649.0 | 2077.1 | 1554.9 | 120.1 |
| 32°   | 5270.2 | 5180.3 | 4969.8 | 4627.4 | 4167.2 | 3630.2 | 3055.9 | 2459.2 | 1909.7 | 1431.3 | 110.0 |
| 33°   | 4953.2 | 4862.7 | 4636.8 | 4315.7 | 3895.2 | 3370.0 | 2791.6 | 2255.1 | 1719.3 | 1284.0 | 101.7 |
| 34°   | 4556.4 | 4473.6 | 4279.0 | 3955.5 | 3552.1 | 3040.5 | 2487.6 | 1973.0 | 1521.8 | 1137.9 | 92.9  |
| 35°   | 4102.2 | 3970.3 | 3794.0 | 3537.9 | 3144.6 | 2630.1 | 2159.3 | 1710.4 | 1318.3 | 984.7  | 83.4  |
| 36°   | 3487.7 | 3511.3 | 3324.4 | 3011.0 | 2685.1 | 2281.7 | 1829.9 | 1425.9 | 1102.4 | 839.2  | 75.1  |
| 37°   | 2943.0 | 2905.7 | 2786.8 | 2544.3 | 2260.4 | 1860.1 | 1533.6 | 1208.9 | 927.4  | 709.7  | 66.2  |
| 38°   | 2374.0 | 2382.3 | 2265.8 | 2079.5 | 1798.0 | 1529.4 | 1234.3 | 993.0  | 776.0  | 603.9  | 58.0  |
| 39°   | 1858.3 | 1851.8 | 1820.4 | 1647.7 | 1392.8 | 1216.6 | 1000.1 | 823.3  | 646.4  | 509.2  | 49.1  |
| 40°   | 1399.9 | 1410.6 | 1337.2 | 1233.1 | 1084.7 | 939.8  | 796.7  | 656.5  | 534.7  | 429.4  | 38.4  |
| 42.5° | 680.7  | 697.3  | 648.8  | 622.2  | 556.5  | 499.8  | 421.7  | 344.2  | 292.8  | 253.1  | 17.2  |
| 45°   | 331.8  | 322.3  | 318.2  | 305.2  | 289.8  | 259.0  | 229.5  | 196.9  | 172.1  | 148.4  | 10.6  |
| 47.5° | 169.7  | 165.0  | 165.0  | 159.7  | 154.4  | 144.3  | 129.5  | 118.9  | 107.0  | 92.3   | 4.1   |
| 50°   | 50.9   | 50.3   | 49.7   | 50.3   | 48.5   | 50.3   | 51.5   | 52.0   | 47.3   | 46.7   | 1.2   |
| 52.5° | 20.1   | 20.7   | 20.1   | 21.9   | 21.9   | 21.3   | 21.9   | 21.3   | 20.7   | 18.3   | 0.0   |
| 55°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.5    | 7.1    | 6.5    | 7.1    | 0.0   |
| 57.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 0.0   |
| 60°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.0    | 0.6   |
| 62.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 65°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 67.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 75°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 20.1  | 20.1 | 20.1   | 20.1 | 20.1   | 20.1 |
| 2.5°  | 23.7  | 20.7 | 17.2   | 14.2 | 13.0   | 12.4 |
| 5°    | 25.4  | 18.9 | 13.0   | 10.1 | 8.9    | 8.3  |
| 7.5°  | 27.2  | 17.2 | 10.1   | 7.1  | 5.3    | 4.7  |
| 10°   | 28.4  | 14.8 | 7.7    | 4.1  | 3.0    | 3.0  |
| 12.5° | 28.4  | 11.8 | 5.3    | 2.4  | 1.8    | 1.8  |
| 15°   | 27.8  | 10.1 | 3.5    | 1.8  | 1.2    | 1.2  |
| 17.5° | 27.2  | 7.7  | 2.4    | 1.2  | 0.6    | 1.2  |
| 20°   | 25.4  | 5.9  | 1.2    | 0.6  | 0.6    | 0.6  |
| 21°   | 24.8  | 5.3  | 1.2    | 0.6  | 0.6    | 0.6  |
| 22°   | 23.7  | 4.7  | 0.6    | 0.0  | 0.6    | 0.6  |
| 23°   | 22.5  | 3.5  | 0.6    | 0.0  | 0.0    | 0.0  |
| 24°   | 20.7  | 3.0  | 0.6    | 0.0  | 0.0    | 0.0  |
| 25°   | 19.5  | 3.0  | 0.6    | 0.0  | 0.0    | 0.0  |
| 26°   | 18.3  | 1.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 16.6  | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 15.4  | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 13.6  | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 11.8  | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 9.5   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 7.7   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 5.3   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.5   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 3.0   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.8   | 0.6  | 0.0    | 0.0  | 0.0    | 0.6  |
| 37°   | 1.8   | 0.6  | 0.0    | 0.0  | 0.0    | 0.6  |
| 38°   | 1.2   | 0.6  | 0.0    | 0.0  | 0.0    | 0.6  |
| 39°   | 0.6   | 0.6  | 0.0    | 0.0  | 0.0    | 0.6  |
| 40°   | 0.6   | 0.6  | 0.0    | 0.0  | 0.0    | 0.6  |
| 42.5° | 0.0   | 0.6  | 0.0    | 0.0  | 0.6    | 1.2  |
| 45°   | 0.0   | 0.6  | 0.0    | 0.0  | 0.6    | 1.2  |
| 47.5° | 0.0   | 0.6  | 0.0    | 0.0  | 1.2    | 1.2  |
| 50°   | 0.0   | 0.6  | 0.6    | 0.6  | 1.2    | 1.8  |
| 52.5° | 0.0   | 1.2  | 0.6    | 1.2  | 1.8    | 2.4  |
| 55°   | 0.6   | 1.2  | 1.2    | 1.8  | 2.4    | 3.0  |
| 57.5° | 0.6   | 1.8  | 1.8    | 2.4  | 3.0    | 3.0  |
| 60°   | 1.2   | 1.8  | 2.4    | 2.4  | 3.5    | 3.5  |
| 62.5° | 1.2   | 2.4  | 2.4    | 2.4  | 3.5    | 3.5  |
| 65°   | 1.2   | 2.4  | 2.4    | 3.0  | 3.5    | 3.5  |
| 67.5° | 1.2   | 2.4  | 2.4    | 2.4  | 3.0    | 3.5  |
| 70°   | 1.2   | 2.4  | 1.8    | 2.4  | 3.0    | 3.0  |
| 72.5° | 1.2   | 2.4  | 1.8    | 1.8  | 2.4    | 3.0  |
| 75°   | 1.2   | 2.4  | 1.8    | 1.8  | 2.4    | 2.4  |
| 77.5° | 1.2   | 1.8  | 1.8    | 1.2  | 1.8    | 1.8  |
| 80°   | 1.2   | 1.8  | 1.2    | 1.2  | 1.8    | 1.8  |



TEST NUMBER: P1325759

CATALOG NUMBER: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.2   | 1.8 | 1.2    | 0.6  | 1.2    | 1.2  |
| 85°   | 1.2   | 1.8 | 1.2    | 0.6  | 0.6    | 0.6  |
| 87.5° | 1.2   | 1.8 | 0.6    | 0.0  | 0.0    | 0.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)